RAW SEQUENCE LISTING
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Revised 01 29 2002

RAW SEQUENCE LISTING   DATE: 06/28/2002
PATENT APPLICATION: US/09/981,151   TIME: 10:27:32

Input Set : A:\Cura-468.app
Output Set: N:\CRF3\06282002\I981151.raw

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 4          Gerlach, Valerie
 5          MacDougall, John R
 6          Malyankar, Muriel M
 7          Smithson, Glennda
 8          Millet, Isabelle
 9          Peyman, John A
10          Stone, David J
11          Gunther, Erik
12          Ellerman, Karen
13          Shimkets, Richard A
14          Padigaru, Muralidhara
15          Guo, Xiaojia
16          Patturajan, Meera
17          Taupier Jr, Raymond J
18          Burgess, Catherine E
19          Zerhusen, Bryan D
20          Kekuda, Ramesh
21          Spytek, Kimberly A
22          Gangolli, Esha A
23          Fernandes, Elma R
24          Gorman, Linda
26  <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
28  <130> FILE REFERENCE: 21402-168
30  <140> CURRENT APPLICATION NUMBER: 09/981,151
31  <141> CURRENT FILING DATE  2001-10-16
33  <150> PRIOR APPLICATION NUMBER: 60/241,040
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37  <151> PRIOR FILING DATE  2000-10-17
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40  <151> PRIOR FILING DATE  2000-10-17
42  <150> PRIOR APPLICATION NUMBER: 60/241,243
43  <151> PRIOR FILING DATE  2000-10-17
45  <150> PRIOR APPLICATION NUMBER: 60/242,152
46  <151> PRIOR FILING DATE: 2000-10-20
48  <150> PRIOR APPLICATION NUMBER: 60/242,482
49  <151> PRIOR FILING DATE  2000-10-23
51  <150> PRIOR APPLICATION NUMBER: 60/242,611
52  <151> PRIOR FILING DATE: 2000-10-23
54  <150> PRIOR APPLICATION NUMBER: 60/242,612
55  <151> PRIOR FILING DATE: 2000-10-23
57  <150> PRIOR APPLICATION NUMBER: 60/242,880
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PATENT APPLICATION: US/09/981,151 TIME: 10:27:32

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 66  <150>  PRIOR APPLICATION NUMBER  60/269,813
 67  <151>  PRIOR FILING DATE  2001-02-20
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 73  <151>  PRIOR FILING DATE: 2001-05-29
 75  <150>  PRIOR APPLICATION NUMBER  60/303,968
 76  <151>  PRIOR FILING DATE: 2001-07-09
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 90  <223>  OTHER INFORMATION: Wherein n is an a or t or c or g.
 92  <400>  SEQUENCE: 1
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n also detected at positions 2383 + 2983 but explanation was omitted (handwritten annotation)

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 98  aaagggcggg acatggatga agctggaaac catcgttctc agcaaactaa cacaggaaca 360
 99  gaaaaccaaa cactgcatgt tctcactcaa tatgacctgg tctctgccta cgaggttgac 420
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104  tcttgcgat cacacagaaa ctcgccatcg catggaggga agttctgtga gggctccact 720
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116  cgtcatgacc acgccatctt actgactggt ctggatatat gttcctggaa gaatgagccc 1440
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PATENT APPLICATION: US/09/981,151   TIME: 10:27:32

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        119 tttggcatga ttcatgatgg agaagggaac atgtgtaaaa agtccgaggg caacatcatg 1620
        120 tcccctacat tggcaggacg caatggagtc ttctcctggt caccctgcag ccgccagtat 1680
        121 ctacacaaat ttctaagcac cgctcaagct atctgccttg ctgatcagcc aaagcctgtg 1740
        122 aaggaataca agtatcctga gaaattgcca ggagaattat atgatgcaaa cacacagtgc 1800
        123 aagtggcagt tcggagagaa agccaagctc tgcatgctgg actttaaaaa ggacatctgt 1860
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        127 tccaggacct gcggaggggg agtatctcat aggagtcgcc tctgcaccaa ccccaatcca 2100
        128 tcgcatggag ggaagttctg tgagggctcc actcgcactc tgaagctctg caacagtcag 2160
        129 aaatgtcccc gggacagtgt tgacttccgt gctgctcagt gtgccgagca caacagcaga 2220
        130 cgattcagag ggcggcacta caagtggaag cctcaggact tatgcaaact ctactgtatc 2280
        131 gcagaaggat ttgatttctt cttttctttg tcaaataaag tcaaagatgg gactccatgc 2340
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        134 acgattcaca ggggtctcta caccaagcac caccacacca accattatca catggtcacc 2520
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        139 aggaacccgg gtgttgcctg ggaatactcc atgcctcgct tggggaccga gaagcagccc 2820
        140 cctgcccagc ccagctacac ttgggccatc gtgcgctctg agtgctccgt gtcctgcgga 2880
        141 gggggtaggt gccttccagt gctgctcctg gaggcagcat gtcagccttc agccactgcg 2940
W-->    142 tacattgcac tggcctttct tgaatcctaa tgagcagccc ggngcttctc cctgcca      2997
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        147 <212> TYPE: PRT
        148 <213> ORGANISM Homo sapiens
        150 <220> FEATURE:
        151 <221> NAME/KEY   VARIANT
        152 <222> LOCATION: (283)
        153 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.

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        157 1   5   10   15
        159 Leu Leu Ala Gln Val Ala Glu Gln Val Ser Pro Gly Arg Ser His Gln
        160   20   25   30
        162 Arg Gly Asn Arg Gly Ser Gly Gln Leu Glu Ala Ser Pro Pro Arg Leu
        163   35   40   45
        165 Leu Ser Arg Gly Pro Arg Arg Leu Thr Ala Met Ser Pro Leu Phe Ser
        166   50   55   60
        168 Ala Gly Thr Cys Val Arg His Gly Thr Arg Ser Gly Ser Ala Trp Glu
        169 65   70   75   80
        171 Pro Glu Arg Pro Ala Ser Ser Ser Thr Arg Gly Ala Ala Gly Leu Asp
        172   85   90   95
        174 Gly Lys Gly Arg Asp Met Asp Glu Ala Gly Asn His Arg Ser Gln Gln
        175   100   105   110
        177 Thr Asn Thr Gly Thr Glu Asn Gln Thr Leu His Val Leu Thr Gln Tyr

(handwritten annotation): → Xaa was also detected at position 797, but explanation was omitted

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Output Set   N:\CRF3\06282002\I981151.raw

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180 Asp Leu Val Ser Ala Tyr Glu Val Asp His Arg Gly Asp Tyr Val Ser
181      130                  135                  140
183 His Glu Ile Met His His Gln Arg Arg Arg Arg Ala Val Ala Val Ser
184 145                  150                  155                  160
186 Glu Val Glu Ser Leu His Leu Arg Leu Lys Gly Pro Arg His Asp Phe
187                  165                  170                  175
189 His Met Asp Leu Arg Thr Ser Ser Ser Leu Val Ala Pro Gly Phe Ile
190                  180                  185                  190
192 Val Gln Thr Leu Gly Lys Thr Gly Thr Lys Ser Val Gln Thr Leu Pro
193                  195                  200                  205
195 Pro Glu Asp Phe Cys Phe Tyr Gln Gly Ser Leu Arg Ser His Arg Asn
196           210                  215                  220
198 Ser Pro Ser His Gly Gly Lys Phe Cys Glu Gly Ser Thr Arg Thr Leu
199 225                  230                  235                  240
201 Lys Leu Cys Asn Ser Gln Lys Cys Pro Arg Asp Ser Val Asp Phe Arg
202                  245                  250                  255
204 Ala Ala Gln Cys Ala Glu His Asn Ser Arg Arg Phe Arg Gly Arg His
205                  260                  265                  270
W--> 207 Tyr Lys Trp Lys Pro Tyr Thr Gln Val Glu Xaa Asp Leu Cys Lys Leu
208                  275                  280                  285
210 Tyr Cys Ile Ala Glu Gly Phe Asp Phe Phe Phe Ser Leu Ser Asn Lys
211           290                  295                  300
213 Val Lys Asp Gly Thr Pro Cys Ser Glu Asp Ser Arg Asn Val Cys Ile
214 305                  310                  315                  320
216 Asp Gly Ile Cys Glu Leu Ser Val Val Ser Thr Ser Ala His Met Pro
217                  325                  330                  335
219 Gln Pro Pro Lys Glu Asp Leu Phe Ile Leu Pro Asp Glu Tyr Lys Ser
220                  340                  345                  350
222 Cys Leu Arg His Lys Arg Ser Leu Leu Arg Ser His Arg Asn Glu Glu
223           355                  360                  365
225 Leu Asn Val Glu Thr Leu Val Val Val Asp Lys Lys Met Met Gln Asn
226           370                  375                  380
228 His Gly His Glu Asn Ile Thr Thr Tyr Val Leu Thr Ile Leu Asn Met
229 385                  390                  395                  400
231 Val Ser Ala Leu Phe Lys Asp Gly Thr Ile Gly Gly Asn Ile Asn Ile
232                  405                  410                  415
234 Ala Ile Val Gly Leu Ile Leu Leu Glu Asp Glu Gln Pro Gly Leu Val
235           420                  425                  430
237 Ile Ser His His Ala Asp His Thr Leu Ser Ser Phe Cys Gln Trp Gln
238           435                  440                  445
240 Ser Gly Leu Met Gly Lys Asp Gly Thr Arg His Asp His Ala Ile Leu
241           450                  455                  460
243 Leu Thr Gly Leu Asp Ile Cys Ser Trp Lys Asn Glu Pro Cys Asp Thr
244 465                  470                  475                  480
246 Leu Gly Phe Ala Pro Ile Ser Gly Met Cys Ser Lys Tyr Arg Ser Cys
247                  485                  490                  495
249 Thr Ile Asn Glu Asp Thr Gly Leu Gly Leu Ala Phe Thr Ile Ala His
250                  500                  505                  510
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Input Set : A:\Cura-468.app
Output Set: N:\CRF3\06282002\I981151.raw

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252 Glu Ser Gly His Asn Phe Gly Met Ile His Asp Gly Glu Gly Asn Met
253         515                 520                 525
255 Cys Lys Lys Ser Glu Gly Asn Ile Met Ser Pro Thr Leu Ala Gly Arg
256     530                 535                 540
258 Asn Gly Val Phe Ser Trp Ser Pro Cys Ser Arg Gln Tyr Leu His Lys
259 545             550                 555                     560
261 Phe Leu Ser Thr Ala Gln Ala Ile Cys Leu Ala Asp Gln Pro Lys Pro
262             565                 570                 575
264 Val Lys Glu Tyr Lys Tyr Pro Glu Lys Leu Pro Gly Glu Leu Tyr Asp
265         580                 585                 590
267 Ala Asn Thr Gln Cys Lys Trp Gln Phe Gly Glu Lys Ala Lys Leu Cys
268         595                 600                 605
270 Met Leu Asp Phe Lys Lys Asp Ile Cys Lys Ala Leu Trp Cys His Arg
271     610                 615                 620
273 Ile Gly Arg Lys Cys Glu Thr Lys Phe Met Pro Ala Ala Glu Gly Thr
274 625                 630                 635                 640
276 Ile Cys Gly His Asp Met Trp Cys Arg Gly Gly Gln Cys Val Lys Tyr
277             645                 650                 655
279 Gly Asp Glu Gly Pro Lys Pro Thr His Gly His Trp Ser Asp Trp Ser
280             660                 665                 670
282 Ser Trp Ser Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Ser His Arg
283         675                 680                 685
285 Ser Arg Leu Cys Thr Asn Pro Asn Pro Ser His Gly Gly Lys Phe Cys
286     690                 695                 700
288 Glu Gly Ser Thr Arg Thr Leu Lys Leu Cys Asn Ser Gln Lys Cys Pro
289 705                 710                 715                 720
291 Arg Asp Ser Val Asp Phe Arg Ala Ala Gln Cys Ala Glu His Asn Ser
292             725                 730                 735
294 Arg Arg Phe Arg Gly Arg His Tyr Lys Trp Lys Pro Gln Asp Leu Cys
295         740                 745                 750
297 Lys Leu Tyr Cys Ile Ala Glu Gly Phe Asp Phe Phe Phe Ser Leu Ser
298         755                 760                 765
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301     770                 775                 780
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304 785                 790                 795                 800
306 Asp Ala Val Glu Asp Val Cys Gly Val Cys Asn Gly Asn Asn Ser Ala
307             805                 810                 815
309 Cys Thr Ile His Arg Gly Leu Tyr Thr Lys His His His Thr Asn His
310             820                 825                 830
312 Tyr His Met Val Thr Ile Pro Ser Gly Ala Arg Ser Ile Arg Ile Tyr
313         835                 840                 845
315 Glu Met Asn Val Ser Thr Ser Tyr Ile Ser Val Arg Asn Ala Leu Arg
316     850                 855                 860
318 Arg Tyr Tyr Leu Asn Gly His Trp Thr Val Asp Trp Pro Gly Arg Tyr
319 865                 870                 875                 880
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322             885                 890                 895
324 Glu Asn Leu Ile Ala Thr Gly Pro Thr Asn Glu Thr Leu Ile Val Glu
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/28/2002
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Input Set : A:\Cura-468.app
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq# 2; Xaa Pos. 283,792
Seq# 23; N Pos. 2196,2230,2261,2270,2295,2301
Seq# 34; Xaa Pos. 450
Seq# 65; Xaa Pos. 41

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/981,151

DATE· 06/28/2002
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Input Set : **A:\Cura-468.app**
Output Set: **N:\CRF3\06282002\I981151.raw**

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L·132 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2340
L:142 M.341 W:  (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2940
L 207 M 341 W   (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:272
L:303 M 341 W   (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:784
L 1962 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos :2160
L.1963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 23 after pos. 2220
L 1964 M 341 W· (46) "n" or "Xaa" used, for SEQ ID# 23 after pos  2280
L 3362 M:341 W  (46) "n" or "Xaa" used, for SEQ ID# 34 after pos   448
L:6512 M:341 W  (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:32
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6/28/02